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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Sep 17 IMSworld Pharmaceutical Company Directory name change  
to PHARMASEARCH  
NEWS 3 Oct 09 Korean abstracts now included in Derwent World Patents  
Index  
NEWS 4 Oct 09 Number of Derwent World Patents Index updates increased  
NEWS 5 Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File  
NEWS 6 Oct 22 Over 1 million reactions added to CASREACT  
NEWS 7 Oct 22 DGENE GETSIM has been improved  
NEWS 8 Oct 29 AAASD no longer available  
NEWS 9 Nov 19 New Search Capabilities USPATFULL and USPAT2  
NEWS 10 Nov 19 TOXCENTER(SM) - new toxicology file now available on STN  
NEWS 11 Nov 29 COPPERLIT now available on STN  
NEWS 12 Nov 29 DWPI revisions to NTIS and US Provisional Numbers  
NEWS 13 Nov 30 Files VETU and VETB to have open access  
NEWS 14 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002  
NEWS 15 Dec 10 DGENE BLAST Homology Search  
NEWS 16 Dec 17 WELDASEARCH now available on STN  
NEWS 17 Dec 17 STANDARDS now available on STN  
NEWS 18 Dec 17 New fields for DPCI  
NEWS 19 Dec 19 CAS Roles modified  
NEWS 20 Dec 19 1907-1946 data and page images added to CA and Caplus  
NEWS 21 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web  
NEWS 22 Jan 25 Searching with the P indicator for Preparations  
NEWS 23 Jan 29 FSTA has been reloaded and moves to weekly updates  
  
NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,  
CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),  
AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

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SESSION

FULL ESTIMATED COST

0.15

0.15

FILE 'REGISTRY' ENTERED AT 12:19:32 ON 01 FEB 2002

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STRUCTURE FILE UPDATES: 30 JAN 2002 HIGHEST RN 388563-50-6

DICTIONARY FILE UPDATES: 30 JAN 2002 HIGHEST RN 388563-50-6

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STN Note 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/CAPLUS files between  
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches  
during this period, either directly appended to a CAS Registry Number  
or by qualifying an L-number with /P, may have yielded incomplete results.  
As of 1/23/02, the situation has been resolved. Also, note that searches  
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files  
incorporating CAS Registry Numbers with the P indicator between 12/27/01  
and 1/23/02, are encouraged to re-run these strategies. Contact the  
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,  
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receive a credit for any duplicate searches.

=> fil caplus uspatfull biosis embase medline

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

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FILE 'CAPLUS' ENTERED AT 12:19:52 ON 01 FEB 2002

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FILE 'MEDLINE' ENTERED AT 12:19:52 ON 01 FEB 2002

=> s pz or pyrazolyl or trispyrazoyl

L1 23095 PZ OR PYRAZOLYL OR TRISPYRAZOYL

=> s bh or boron hydride or borohydride

L2 68584 BH OR BORON HYDRIDE OR BOROHYDRIDE

=> s tb or terbium

L3 76494 TB OR TERBIUM

=> s lanthanide

L4 42562 LANTHANIDE

=> s organometallic complex

L5 1898 ORGANOMETALLIC COMPLEX

=> s l1(l)l2

L6 2267 L1(L) L2

=> s l1(p)l2

L7 63 L1(P) L2

=> s l7 and l3

L8 3 L7 AND L3

=> dup rem l8

PROCESSING COMPLETED FOR L8

L9 3 DUP REM L8 (0 DUPLICATES REMOVED)

=> d ibib abs

L9 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:55807 CAPLUS

DOCUMENT NUMBER: 130:245582

TITLE: Lanthanide complexes of a new sterically hindered potentially hexadentate podand ligand based on a tris(pyrazolyl)borate core; crystal structures, solution structures and luminescence properties

AUTHOR(S): Reeves, Zoe R.; Mann, Karen L. V.; Jeffery, John C.; McCleverty, Jon A.; Ward, Michael D.; Barigelletti, Francesco; Armaroli, Nicola

CORPORATE SOURCE: School of Chemistry, University of Bristol, Bristol, BS8 1TS, UK

SOURCE: J. Chem. Soc., Dalton Trans. (1999), (3), 349-356  
CODEN: JCDBI; ISSN: 0300-9246

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The new podand ligand hydrotris[3-(6-methyl)pyridin-2-ylpyrazol-1-yl]borate [L1]- was prepd. which contains three bidentate **pyrazolyl**/pyridine arms attached to a {**BH**}- head-group.

This ligand differs from an earlier ligand hydrotris[3-(2-pyridyl)pyrazol-

1-yl]borate [L2]- by the presence of Me groups attached to the C6 positions of the pyridyl rings, which would interfere with each other sterically if the ligand coordinated in a fully hexadentate manner.

Instead, crystallog. anal. of [M(L1)(NO3)2(H2O)] (M = Eu, **Tb** or Gd) showed that partial dissocn. of the podand occurs to relieve this potential steric problem: either one or two of the pyridyl groups are not

coordinated, such that [L1]- is penta- or tetra-dentate, but instead are involved in intramol. N.cntdot..cntdot..cntdot.H-O hydrogen-bonding interactions with the coordinated water mol. The presence of both structural forms in single crystals of the gadolinium and europium complexes shows that interconversion between them in soln. must be facile.

Variable-temp. 1H NMR spectra of the diamagnetic lanthanum(III) analog shows that, whereas all three ligand arms are equiv. on the NMR timescale at high temps., at -80.degree. there is mirror symmetry in the complex such that two arms are equiv. and the 3rd is different from the other two;

this is consistent with the cryst. form in which [L1]- is tetradentate with two pendant pyridyl arms, which has pseudo-mirror symmetry. Luminescence studies showed that whereas the ligand-based luminescence is retained in the gadolinium(III) complex, in the europium(III) and **terbium**(III) complexes the ligand-centered emission is quenched by ligand-to-metal energy transfer, resulting in the usual metal-centered emission spectra. The intensity of the emission from the europium(III) and **terbium**(III) complexes of [L1]- is substantially reduced compared to the emission from the analogous complexes [M(L2)(NO3)2] (M = Eu or Tb) which the authors ascribe to the sterically induced poorer coordination of the podand ligand, resulting in (i) less efficient ligand-to-metal energy transfer, and (ii) coordination of labile solvent mols. (H2O) to the metal centers.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

=> d 2 ibib abs

L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1998:806731 CAPLUS  
DOCUMENT NUMBER: 130:73617  
TITLE: Organometallic complexes  
INVENTOR(S): Christou, Victor  
PATENT ASSIGNEE(S): Isis Innovation Ltd., UK  
SOURCE: PCT Int. Appl., 38 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE     | APPLICATION NO. | DATE     |
|------------------------|--|----------|-----------------|----------|
| WO 9855561             | A1   | 19981210 | WO 1998-GB1587  | 19980601 |
| W:                     | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |          |                 |          |
| RW:                    | GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG   |          |                 |          |
| AU 9876681             | A1   | 19981221 | AU 1998-76681   | 19980601 |
| EP 988353              | A1   | 20000329 | EP 1998-924488  | 19980601 |
| R:                     | BE, DE, ES, FR, GB, IT, NL   |          |                 |          |
| PRIORITY APPLN. INFO.: |  |          | GB 1997-11237   | 19970602 |

OTHER SOURCE(S): MARPAT 130:73617

AB Light-emitting devices are described which employ organometallic complexes

comprising a lanthanide metal cation complexed with 1-3 polydentate ligands contg. .gtoreq.1 (un)substituted pyrazolyl groups optionally fused

with (un)substituted heterocyclic or carbocyclic (non)arom. ring systems, with a coordinate bond formed between the metal and one of the nitrogen atoms of the pyrazolyl rings. Preferably, the ligands comprise trispyrazolyl borate derivs. Organometallic compds. suitable for the devices are also claimed, as are methods of producing them entailing the reaction of the ligands with a cation followed by sepn. of the products. Compns. combining the compds. with a matrix material are also described. Use in electroluminescent flat panel displays is also described.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

=> d 3 ibib abs

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1991:217117 CAPLUS

DOCUMENT NUMBER: 114:217117

TITLE: Luminescence studies of tris[dihydrobis(1-pyrazolyl)borato]terbium(III)

AUTHOR(S): Reger, Daniel L.; Chou, Pi Tai; Studer, Shannon L.; Knox, Steven J.; Martinez, Marty L.; Brewer, William E.

CORPORATE SOURCE: Dep. Chem., Univ. South Carolina, Columbia, SC, 29208,

USA

SOURCE: Inorg. Chem. (1991), 30(10), 2397-402

CODEN: INOCAJ; ISSN: 0020-1669

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The luminescence spectra and dynamics of [H2B(pz)2]3Tb were studied at different temps., in the solid phase, and in various solvents. Anal. of the data for the cryst. sample based on the electron dipole selection rules reveals effective C3 symmetry. Thus, the luminescence spectra are those expected for the trigonal-prismatic arrangement of the nitrogen donor atoms, but are influenced by the three weak BH--- Tb three-center bonds to each of the rectangular faces. Similar luminescence spectra were obsd. for [H2B(pz)2]3Tb in CH2Cl2 and toluene solns. In donor solvents, complexation of [H2B(pz)2]3Tb with the solvent mols. changes the lifetime and the spectral features of the luminescence, indicating a change in the coordination environment about [H2B(pz)2]3Tb.

=> d his

(FILE 'HOME' ENTERED AT 12:19:19 ON 01 FEB 2002)

FILE 'REGISTRY' ENTERED AT 12:19:32 ON 01 FEB 2002

FILE 'CAPLUS, USPATFULL, BIOSIS, EMBASE, MEDLINE' ENTERED AT 12:19:52 ON 01 FEB 2002

L1 23095 S PZ OR PYRAZOLYL OR TRISPYRAZOYL

L2 68584 S BH OR BORON HYDRIDE OR BOROHYDRIDE  
 L3 76494 S TB OR TERBIUM  
 L4 42562 S LANTHANIDE  
 L5 1898 S ORGANOMETALLIC COMPLEX  
 L6 2267 S L1(L)L2  
 L7 63 S L1(P)L2  
 L8 3 S L7 AND L3  
 L9 3 DUP REM L8 (0 DUPLICATES REMOVED)

=> s l7 and l4

L10 5 L7 AND L4

=> l10 not l8

L10 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
 For a list of commands available to you in the current file, enter  
 "HELP COMMANDS" at an arrow prompt (=>).

=> s l10 not l8

L11 3 L10 NOT L8

=> d ibib abs

L11 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:279293 CAPLUS

DOCUMENT NUMBER: 131:27043

TITLE: **Lanthanide** alkyl and hydride complexes  
 containing the tris(**pyrazolyl**)  
**borohydride** ligand and their activity as  
 homogeneous polymerization catalysts

AUTHOR(S): Long, David Pearson

CORPORATE SOURCE: Univ. of Massachusetts, Amherst, MA, USA

SOURCE: (1998) 234 pp. Avail.: UMI, Order No. DA9909183  
 From: Diss. Abstr. Int., B 1999, 59(10), 5360

DOCUMENT TYPE: Dissertation

LANGUAGE: English

AB Unavailable

=> d 2 ibib abs

L11 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:588206 CAPLUS

DOCUMENT NUMBER: 127:184754

TITLE: Synthesis, Structure, and Reactions of Hydride,  
 Borohydride, and Aluminohydride Compounds of the  
 f-Elements

AUTHOR(S): Ephritikhine, Michel

CORPORATE SOURCE: Service de Chimie Moléculaire DSM, DRECAM CNRS URA  
 331

SOURCE: CEA Saclay, Gif sur Yvette, 91191, Fr.  
 Chem. Rev. (Washington, D. C.) (1997), 97(6),  
 2193-2242

CODEN: CHREAY; ISSN: 0009-2665

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 304 refs. An assessment is given of the synthesis,  
 structures, and reactions of mol. f-element hydrides. The hydrides of  
 scandium, yttrium, and lanthanum are included because of their close

similarity. Also presented are properties of the **borohydride**,  
 aluminohydride, and alane compds. of these metals. Complexes with  
 agostic  
 C-H bonds are not discussed, nor are poly(**pyrazolyl**)borate  
 complexes, which were the subject of another review (I. Santos, et al.,  
 1995).

=> d 3 ibib abs

L11 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1996:689344 CAPLUS  
 DOCUMENT NUMBER: 126:31698  
 TITLE: A Catalytic System for Ethylene Polymerization Based  
 on Group III and **Lanthanide** Complexes of  
 Tris(pyrazolyl)borate Ligands  
 AUTHOR(S): Long, David P.; Bianconi, Patricia A.  
 CORPORATE SOURCE: Department of Chemistry, Pennsylvania State  
 University, University Park, PA, 16802, USA  
 SOURCE: J. Am. Chem. Soc. (1996), 118(49), 12453-12454  
 CODEN: JACSAT; ISSN: 0002-7863  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Numerous reports have shown the viability of tris(**pyrazolyl**)borates as  
 an  
 effective ligand system for the system control around a metal center. WE  
 report here the synthesis and characterization of tris(3,5-dimethyl-1-  
**pyrazolyl**)**borohydride** (TpMe) complexes of yttrium of the  
 general formula [TpMeYR<sub>2</sub>(THF)<sub>x</sub>] [R = C<sub>6</sub>H<sub>5</sub>, CH<sub>2</sub>SiMe<sub>3</sub>]. We have found  
 these  
 complexes and similar ones of variously substituted Tp ligands, as well  
 as  
 analogous **lanthanide** complexes, to be active in the catalytic  
 polymn. of ethylene to linear, extremely high mol. wt. polymers. The  
 variations in polymn. activity and yields of polyethylene (PE) that are  
 obtained from different members of this class of complexes show that  
 synthetic tailoring allows control over the rate of the polymn. reaction  
 and the yield of the PE product.

=> FIL STNGUIDE

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